

Serial No. 10/807,433
Amendment dated July 13, 2006
Reply to Office Action of April 17, 2006

Docket No. RPL-0032

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A plasma display panel comprising:
transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell;
metal electrodes which are formed in parallel to said transparent ITO electrodes and formed on verge of said transparent ITO electrodes, respectively; and
auxiliary metal electrodes which are formed on said transparent ITO electrodes so that they are positioned in the direction of sides of said transparent ITO electrodes which are opposite to each other, respectively, wherein the auxiliary metal electrodes are electrically separated from the metal electrodes by the transparent ITO electrodes.

2. (Previously Presented) The plasma display panel of claim 1, wherein
said auxiliary metal electrodes are formed between a middle of the direction perpendicular to the longitudinal axis of the transparent ITO electrodes in the plane view of the electrodes and the longitudinal sides of the transparent ITO electrodes in the plane view of the electrodes, respectively.

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3. (Original) The plasma display panel of claim 2, wherein said auxiliary metal electrodes are more than two and formed in parallel to each other within said transparent ITO electrodes, respectively.

4. (Original) The plasma display panel of claim 2, wherein said auxiliary metal electrodes are three and formed in triangular shape on said transparent ITO electrodes, respectively.

5. (Original) The plasma display panel of claim 2, wherein each of said auxiliary metal electrodes is quadrangular shape.

6. (Previously Presented) The plasma display panel of claim 1, wherein said auxiliary metal electrodes have numerous electrode patterns formed in equidistance, respectively.

7. (Currently amended) A plasma display panel comprising:
transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell;
metal electrodes which are formed on said transparent ITO electrodes and in parallel to said transparent ITO electrodes so that they are positioned in the direction of sides of

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said transparent ITO electrodes which are opposite to each other, respectively; and auxiliary metal electrodes which are formed on verge of said transparent ITO electrodes, respectively wherein the auxiliary metal electrodes are electrically separated from the metal electrodes by the transparent ITO electrodes.

8. (Previously Presented) The plasma display panel of claim 7, wherein said metal electrodes are formed between a middle of the direction perpendicular to the longitudinal axis of the transparent ITO electrodes in the plane view of the electrodes and the longitudinal sides of the ITO electrodes in the plane view of the electrodes, respectively.
9. (Original) The plasma display panel of claim 8, wherein said auxiliary metal electrodes are more than two and formed in parallel to each other within said transparent ITO electrodes, respectively.
10. (Original) The plasma display panel of claim 8, wherein said auxiliary metal electrodes are three and formed in triangular shape on said transparent ITO electrodes, respectively.

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11. (Original) The plasma display panel of claim 8, wherein each of said auxiliary metal electrodes is quadrangular shape.

12. (Previously Presented) The plasma display panel of claim 7, wherein said auxiliary metal electrodes have numerous electrode patterns formed in equidistance, respectively.

13. (Currently Amended) A plasma display panel comprising a discharge cell comprising:

a substrate;

a transparent electrode pair which are formed in parallel to each other at a predetermined distance on the substrate;

a main metal electrode pair which are formed in parallel to the transparent electrode pair on the transparent electrode pair, respectively; and

an auxiliary metal electrode pair which are formed on the transparent electrode pair so that they are electrically separated from the main metal electrode pair by the transparent electrode pair.

14. (Previously Presented) The plasma display panel of claim 13, wherein the main metal electrode pair are positioned on the outward side of a discharge gap of the discharge cell

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and the auxiliary metal electrode pair are positioned on the inward side of the discharge gap of the discharge cell.

15. (Previously Presented) The plasma display panel of claim 14, wherein the auxiliary metal electrode pair are more than two pairs.

16. (Previously Presented) The plasma display panel of claim 14, wherein the auxiliary metal electrode pair are positioned on the center of the discharge cell.

17. (Previously Presented) The plasma display panel of claim 16, wherein the auxiliary metal electrode pair are positioned in parallel to the longitudinal axis of the main metal electrode pair, and are more than two pairs.

18. (Previously Presented) The plasma display panel of claim 16, wherein the auxiliary metal electrode pair are formed into more than two pairs in and around the center of the discharge cell.

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19. (Previously Presented) The plasma display panel of claim 18, wherein the auxiliary metal electrode pair are formed into three pairs which are one pair in the center of the discharge cell and each one pair around the center of discharge cell.

20. (Previously Presented) The plasma display panel of claim 18, wherein the auxiliary metal electrode pair formed in the center of the discharge cell are positioned on the more inward side of the discharge gap than the auxiliary metal electrode pair formed around the center of the discharge cell.

21. (Previously Presented) The plasma display panel of claim 19, wherein the auxiliary metal electrode pair formed in the center of discharge cell are positioned on the more inward side of discharge gap than the auxiliary metal electrode pair formed around the center of discharge cell.

22. (Previously Presented) The plasma display panel of claim 17, wherein the auxiliary metal electrode pair are formed in equidistance, respectively.

23. (Previously Presented) The plasma display panel of claim 13, wherein the auxiliary metal electrode pair are quadrangular shape.

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24. (Previously Presented) The plasma display panel of claim 23, wherein the auxiliary metal electrode pair are rectangular form in the direction of the longitudinal axis of the main metal electrode.
25. (Previously Presented) The plasma display panel of claim 13, wherein the main meal electrode pair are positioned on the inward side of discharge gap of the discharge cell and the auxiliary metal electrode pair are positioned on the outward side of discharge gap of the discharge cell.
26. (Previously Presented) The plasma display panel of claim 25, wherein the auxiliary metal electrode pair are more than two pairs.
27. (Previously Presented) The plasma display panel of claim 25, wherein the auxiliary metal electrode pair are positioned on the outward side of the center of the discharge cell.
28. (Previously Presented) The plasma display panel of claim 27, wherein the auxiliary metal electrode pair are positioned in parallel to the longitudinal axis of the main metal electrode pair, and are more than two pairs.

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29. (Previously Presented) The plasma display panel of claim 27, wherein the auxiliary metal electrode pair are formed into more than two pairs in and around the outward side of the center of discharge cell.

30. (Previously Presented) The plasma display panel of claim 29, wherein the auxiliary metal electrode pair are formed into three pairs which are one pair in the outward side of the center of discharge cell and each one pair around the outward side of the center of discharge cell.

31. (Previously Presented) The plasma display panel of claim 29, wherein the auxiliary metal electrode pair formed in the outward side of the center of discharge cell are positioned on the more outward side of discharge gap than the auxiliary metal electrode pair formed around the outward side of the center of discharge cell.

32. (Previously Presented) The plasma display panel of claim 30, wherein the auxiliary metal electrode pair formed in the outward side of the center of discharge cell are positioned on the more outward side of discharge gap than the auxiliary metal electrode pair formed around the outward side of the center of discharge cell.

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33. (Previously Presented) The plasma display panel of claim 28, wherein the auxiliary metal electrode pair are formed in equidistance, respectively.

34. (Previously Presented) The plasma display panel of claim 25, wherein the auxiliary metal electrode pair are quadrangular shape.

35. (Previously Presented) The plasma display panel of claim 34, wherein the auxiliary metal electrode pair are rectangular form in the direction of the longitudinal axis of the main metal electrode.

36. (Previously Presented) The plasma display panel of claim 25, wherein a width of the auxiliary metal electrode pair equals to a width of the main metal electrode pair.

37. (Previously Presented) The plasma display panel of claim 25, wherein a distance between the main metal electrode and the center of the discharge gap is less than $\frac{1}{4}$ of a length of the discharge cell.